

## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date  
7 October 2004 (07.10.2004)

PCT

(10) International Publication Number  
**WO 2004/085432 A1**

(51) International Patent Classification<sup>7</sup>: **C07D 411/04**

(21) International Application Number: PCT/IB2004/000924

(22) International Filing Date: 19 March 2004 (19.03.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data: MI2003A000578 24 March 2003 (24.03.2003) IT

(71) Applicant (for all designated States except US): CLARIANT LIFE SCIENCE MOLECULES (ITALIA) SPA [IT/IT]; Via Vittor Pisani 16, I-20124 Milano (IT).

(72) Inventors; and

(75) Inventors/Applicants (for US only): BERTOLINI, Giorgio [IT/IT]; Via Angelo Villa, 1, I-20099 Sesto San Giovanni (IT). DELEO, Maurizio [IT/IT]; Via Cividale del Friuli 11, I-20152 Milano (IT). FRIGERIO, Marco [IT/IT]; Via Teobaldo Ciconi, 8, I-20147 Milano (IT). LOSA, Massimo [IT/IT]; Via Giuseppe Garibaldi 96, I-20010 Pogliano Milanese (IT). VELATI, Maurizio [IT/IT]; Via Marconi 83, I-27030 Mezzana Rabattone (IT).

(74) Agent: DÜNNWALD, Dieter; Clariant International Ltd, Rothausstrasse 61, CH-4132 Muttenz 1 (CH).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CR, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## Published:

- with international search report
- with amended claims

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2004/085432 A1

(54) Title: PROCESS AND INTERMEDIATES FOR PREPARING EMTRICITABINE

(57) Abstract: A novel process for preparing emtricitabine, and more particularly a process for preparing emtricitabine characterized by the formation and isolation of intermediate compounds in salified form, is described.